

Title (en)  
EXTRACTION DEVICE

Title (de)  
EXTRAKTIONSVORRICHTUNG

Title (fr)  
DISPOSITIF D'EXTRACTION

Publication  
**EP 4239311 A2 20230906 (DE)**

Application  
**EP 23181023 A 20130206**

Previously filed application  
13405029 20130206 EP

Priority  
• EP 23181023 A 20130206  
• EP 13405029 A 20130206

Abstract (en)  
[origin: EP2765403A1] The device (1) has an extractor and a tip (100) that are provided for penetrating a separating layer. The extractor is connected to the tip and guided in a guide sleeve (150) along guiding direction, where external diameter of the tip is greater than external diameter of the extractor measured at right angles to the guiding direction. The external diameter of the guide sleeve measured at right angles to the guiding direction corresponds to the external diameter of the tip measured at right angles to the guiding direction. The extractor comprises a wire (110) and a hollow body. The wire is made of metal or metal alloy, stainless steel and chromium steel. The extractor is made of a physically active substance selected from one of activated carbon, polyacrylate, carbowax, polydivinylbenzene, carboxen and polydimethylsiloxane. An independent claim is also included for a method for extracting an extraction material from a container with an extraction device.

Abstract (de)  
Eine Vorrichtung (1) zur Extraktion eines Extraktionsgutes, insbesondere für eine Festphasenmikroextraktion, umfasst einen Extraktor (130) und eine Spitze (100) zum Durchdringen einer Trennschicht, wobei der Extraktor (130) mit der Spitze (100) verbunden ist. In einem Verfahren zur Extraktion eines Extraktionsgutes aus einem Behältnis mit einer Extraktionsvorrichtung (1) wird eine Trennschicht des Behältnisses mit einer Spitze (100) eines Extraktors (130) durchdrungen und das Extraktionsgut wird extrahiert.

IPC 8 full level  
**G01N 1/08** (2006.01); **G01N 1/22** (2006.01)

CPC (source: EP US)  
**G01N 1/08** (2013.01 - EP US); **G01N 1/2226** (2013.01 - EP US); **G01N 1/405** (2013.01 - US); **G01N 2030/009** (2013.01 - US); **Y10T 436/255** (2015.01 - EP US)

Citation (applicant)  
• EP 0794822 B1 20010801 - VARIAN INC [US]  
• WO 9115745 A1 19911017 - PAWLISZYN JANUSZ B [CA]  
• WO 2007032039 A2 20070322 - DEGLI ESPOSTI FILIPPO [IT], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2765403 A1 20140813**; **EP 2765403 B1 20230802**; CN 104014162 A 20140903; CN 104014162 B 20180914; EP 4239311 A2 20230906; EP 4239311 A3 20231115; US 10001431 B2 20180619; US 2014220701 A1 20140807

DOCDB simple family (application)  
**EP 13405029 A 20130206**; CN 201410102363 A 20140206; EP 23181023 A 20130206; US 201414172545 A 20140204